Math 1A03/1ZA3 Course Calendar

Week 0: September 4-5, 2014	
Lecture 1	Introduction 1.6 Inverse Functions and Logarithms
Week 1: September 8-12, 2014	
DO ASSIGNMENT #0 AND MAPLE LAB #0 (Not for credit)	
Lecture 2	1.6 Inverse Functions and Logarithms (Continued)
Lecture 3	2.5 Continuity and Review of Limits
Lecture 4	2.5 Intermediate Value Theorem
Tutorial	*Review of Trigonometry (Appendix D)*
Week 2: September 15-19, 2014	
ASSIGNMENT #1 DUE DATE: 11:59pm on Thursday September 18th	
Lecture 5	2.7 Derivatives and Rates of Change
Lecture 6	2.8 The Derivative as a Function
Lecture 7	3.1 Derivatives of Polynomials and Exponential Functions 3.2 The Product and Quotient Rule 3.3 Derivatives of Trigonometric Functions
Tutorial	*Problem Session/Review*
Week 3: September 22-26, 2014	
MAPLE LAB #1 Due Date: 11:59pm on Thursday September 25th	
Lecture 8	4.8 Newton's Method
Lecture 9	3.4 The Chain Rule 3.5 Implicit Differentiation
Lecture 10	3.5 Implicit Differentiation (Note: Do Exercise 67(a) from the 6th Edition or 77(a) from the 7th Edition in 3.5, or state the result in class) 3.6 Derivatives of Logarithmic Functions
Tutorial	*Problem Session/Review*
Week 4: September 29 - October 3, 2014	
ASSIGNMENT #2 DUE DATE: 11:59pm on Thursday October 2nd	
Lecture 11	3.11 Hyperbolic Functions
Lecture 12	4.1 Maximum and Minimum Values
Lecture 13	4.2 Mean Value Theorem
Tutorial	*Problem Session/Review*
Week 5: October 6-10, 2014	
TEST 1: Evening of Wednesday October 8th	
Lecture 14	4.3 How Derivatives Affect the Shape of a Graph
Lecture 15	4.4 Indeterminate Forms and L'Hospital's Rule
Lecture 16	4.5 Summary of Curve Sketching
Tutorial	*Problem Session/Review*

Week 6: October 13-17, 2014	
THANKSGIVING WEEK (Holiday Monday, October 13th)	
MAPLE LAB #2 Due Date: 11:59pm on Thursday Oct. 16th	
Lecture 17	4.5 Summary of Curve Sketching (Continued)
Lecture 18	4.7 Optimization Problems
Lecture 19	4.9/5.4 Antiderivatives Introduce indefinite integral notation from Section 5.4 while doing 4.9
Tutorial	*Problem Session/Review*
Week 7: October 20-24, 2014	
ASSIGNMENT #3 DUE DATE: 11:59pm on Thursday October 23rd	
Lecture 20	Appendix E (Omit Mathematical Induction)
Lecture 21	5.1 Area and Distance
Lecture 22	5.2 The Definite Integral
Tutorial	*Problem Session/Review*
Week 8: October 27-31, 2014	
MID-TERM RECESS (No classes October 30th and 31st)	
MAPLE LAB #3 Due Date: 11:59pm on *Wednesday* October 29th	
Lecture 23	5.3 Fundamental Theorem of Calculus
Tutorial	*Problem Session/Review*
Week 9: November 3-7, 2014	
ASSIGNMENT #4 DUE DATE: 11:59pm on Thursday November 6th	
Lecture 24	5.5 The Substitution Rule
Lecture 25	6.1 Areas Between Curves
Lecture 26	6.2 Volumes
Tutorial	*Problem Session/Review*
Week 10: November 10-14, 2014	
Test 2: Evening of Wednesday November 12th	
Lecture 27	6.2 Volumes (Continued) 6.4 Work
Lecture 28	6.5 Average Value of a Function 7.1 Integration by Parts
Lecture 29	7.1 Integration by Parts (Continued)
Tutorial	*Problem Session/Review*
Week 11: November 17-21, 2014	
MAPLE LAB #4 Due Date: 11:59pm on Thursday November 20th	
Lecture 30	7.2 Trigonometric Integrals
Lecture 31	7.3 Trigonometric Substitution
Lecture 32	7.4 Integration of Rational Functions by Partial Fractions (omit rationalizing substitutions)
Tutorial	*Problem Session/Review*

Week 12: November 24-28, 2014	
ASSIGNMENT #5 DUE DATE: 11:59pm on Thursday November 27th	
Lecture 33	7.4 Integration of Rational Functions by Partial Fractions (Continued)
Lecture 34	8.1 Arc Length
Lecture 35	7.5 Integration Strategy
Tutorial	*Problem Session/Review*
Week 13: December 1-3, 2014 (Classes end on Dec. 3)	
ASSIGNMENT #6 DUE DATE: 11:59pm on Thursday December 4th	
Lecture 36	Review